Work Order ID 55060

January 5, 2010 2:37:18 PM

Item ID:

D117-762-041



Accept



Setup Start



Stop

Revision ID: Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Qty: 1.00 Req'd Qty: 1.06



Cust Item ID: **Customer:**

Reference:

Approvals:

Required Date: 15/01/2010

QC:

Date:

SPC (Y/N):

0.00

0.00

0.00

0.00

Date:

Date:

Run

Start



Stop

Sequence ID/ **Work Center ID**

Operation Description Set Up/ **Run Hours** Draw Number

Draw Plan Rev. Code

Accept Qty

Reject Qty

Reject Stamp Number

Draw Nbr

Revision Nbr

D3582 Rev A

100

DC

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile & type labels per PPP D117-762-041 CHG001

110

Skidtubes

Memo

Skidtubes Skidtubes

1-Determine square end of tube and deburr 2-Drill #30 pilot holes using DT8678.

3- open holes to 5/16"

120

CNC Bend 1

0.00

BENDING MACHINE - SKIDTUBES

Memo

0.00

CNC Delta 100 Bender

Bend tube as per program D3582 on CNC Bender and Dwg D3582. Use 5/16"

locator pin on buggy "A".

Dart Ae	-							
W/O:		and the state of t	WC	ORK ORDER CHANGES	3		*	,
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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Part No):	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA:	Date: _	
	Reso	olution:	Disposition	ı:	QA: N/C CI	osed:	Date: _	
NCR:		444	WORK ORDE	ER NON-CONFORMAN	CE (NCR	3)		
5.4==		Description of NC		Corrective Action Section I	 В	Verification	Approval	Annrovo
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approva QC Inspecto
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January 5, 2010 2:37:18 PM

Required Date: 15/01/2010

Item ID:

D117-762-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Qty: 1.00 Req'd Qty: 1300

Cust Item ID:

Customer:

Start



Reference:

Approvals:

Process Plan:

Date: Tooling:

SPC (Y/N):

0.00

Date: Date:

Stop



Sequence ID/ **Work Center ID**

130



Skidtubes

Skidtubes

Operation Description

Set Up/ **Run Hours** Draw Number

Draw Rev.

Accept Code Qty

Plan

Reject Qty

Run

Number Stamp

Skidtubes

Memo

1-Cut Fwd end of the tube using DT8185

Date:

2-Cut Aft end using DT8185

3-Deburr ends

4-Drill Aft Cap holes using DT8678 ***DO NOT OPEN AFT CAP HOLE***

5-Locate DT 8973 & Drill Ground wire hole on top of Tube.

6-Install 3/16 cleco in Ground wire hole ,then drill all X-Boltholes using 3/16" drill.

7-Drill pilot holes for wearplates using DT8974

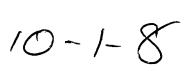
8-Open wearplate holes to Ø19/64" (0.297") as per Dwg D3582.

9- open ground wear holes to 0.391" as per section B-B

10-Open Aft Cap holes using .209" drill.

11-Drill pilot holes for section D-D and E-E. Holes must be laid out by hand. Mark out Center line and make sure that 6.65 and 5.906 measurements are respected. Double check before drilling, do not open holes to fnish size.





Dart Ae	rospace	Ltd							· •
W/O:			WO	RK ORDER CHANGE	ES				10 M
DATE	STEP	PRO	CEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	jory:	NCR: Yes	No DQ	\:	Date:	
	Re	esolution:	Disposition):	QA: N/C CI	osed:		Date: _	
NCR:		\	WORK ORDE	R NON-CONFORMA	NCE (NCF	₹)			
D.4.T.F	0750	Description of NC		Corrective Action Section	n B	Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector
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Item ID:

D117-762-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Required Date: 15/01/2010

January 5, 2010 2:37:18 PM

Replacement Skidtube

Start Date:

05/01/2010

Start Qty: 1.00 Req'd Q 13 1.00

Operation

Description

Skidtubes

Cust Item ID: Customer:

Draw

Number

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Draw

Rev.

Plan

Code

Start Run

Reject

Qty

Accept

Qty

Date: ____

SPC (Y/N):

Set Up/

0.00

0.00

Run Hours

Date:

Stop

Number Stamp

Insp.

Sequence ID/

Work Center ID

140

Skidtubes

Skidtubes

Memo

1-Weld fwd cap D2964 per dwg D3582 and QSI 004

2-Grind flush

QC10- Inspect visual per QSI004- ground welds

150

QC

Quality Control

Memo

160

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

		— - - -							
W/O:		WORK ORDER CHANGES							
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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							<u></u>		
Part No	•	PAR #:	Fault Cate	jory:	NCR: Yes	No DQ	A :	_ Date: _	
	Res	solution:	Disposition	1:	_ QA: N/C Cl	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector
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Work Order ID 55060



Page 4

January 5, 2010 2:37:18 PM

Item ID:

D117-762-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date: 05/01/2010

Required Date: 15/01/2010

Stact Qty: 1.00 Reg! Qty: 1.00

Cust Itema D:

Custom's:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:_____

SPC (Y/N):

Date:

Stop

Start

Sequence ID/ Work Center ID

170

HandFinish Hand Finishing Operation Description

Chemical Conversion Coat per QS1005 4.1

Set Up/ **Run Hours**

Draw Number

Plan Draw Rev. Code Accept Qty

Reject Qty

Reject

Number Stamp

Memo

0.00

0.00

Run

& MB 10-01-12

180

QC

QC3- Inspect Part Finish

0.00

0.00

N 10/1/12

Memo Quality Control

W/O:	·		W	ORK ORDER CHAN	GES			****		· · · · · · · · · · · · · · · · · · ·
DATE	STEP	PR	OCEDURE CHA			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	egory:	NCF	: Yes	No DQ	A :	Date:	
		solution:								
NCR:			WORK ORD	ER NON-CONFORM	IANCE	(NCR)			
DATE	0750	Description of NC		Corrective Action Se	ection B		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	1	Sign & Date		ion C	Chief Eng	QC Inspector
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Work Order ID 55060



Page 5

January 5, 2010 2:37:18 PM

Required Date: 15/01/2010

Item ID:

D117-762-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Oty: 1.00 Rae'd Oty: 1.00

Cust Item ID:

Custo er:

Reference:

Approvals:

Process Plan: ____

Date: _____

Tooling:

Set Up/

Run Hours

Date:

Draw

Number

Run Start

Reject

Qty

Accept

Qty

Operation

Description

Date: SPC (Y/N):

Date:

Draw

M 6/1/12

Rev.

Plan

Code

Stop

Stamp

Number

Sequence ID/

Work Center ID

190

Skidtubes

Skidtubes

Memo

0.00

0.00

Skidtubes

1-Open X-Bolt holes to finish size as per Dwg D3582, all sections

2-Counter Sink X-BOLT holes as per Dwg D3582

3-Deburr and blow out chips from inside of tube, prep. tube for welding.

4-Bond web as per Dwg D3582 & QSI Q15 A/R 241 Sike Flex Batch: 19112395 Exp Date: 12/3/32

5-Weld x-bolt spacers(D2973) as per Dwg D3582 section B-B.

6-Grind welds flush (a. A 10 - 0 |- 14

A/R AL ROD

QC10- Inspect visual per QS1004- ground welds

Batch: M12860 BE

200

QC

Memo

=) Sioladiy

Quality Control

	Johnson									
W/O:			WO	RK ORDER CHANG	ES				1	
DATE	STEP	PRO	CEDURE CHAN	IGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	jory:	_ NCR	: Yes N	lo DQ	4 :	_ Date: _	
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NCR:		,	WORK ORDE	R NON-CONFORMA	ANCE	(NCR))			
DATE	STEP	Description of NC			ion B		Verific	ation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti		Chief Eng	QC Inspector
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January 5, 2010 2:37:18 PM

Item ID: Revision ID: D117-762-041

Replacement Skidtube

Accept



Setup Start



Stop

Item Name:

Start Date: 05/01/2010 Start Qty: 1.00 **Required Date:** 15/01/2010 Req'd Qty: 1.00

Cust Item ID: Castomer:

Draw

Number

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Draw

Rev.

Plan

Code

Start

Run



QC: ____ Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Stop



Number Stamp

Sequence ID/ Work Center ID

210

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

2) 500/11/14

Accept

Qty

Reject

Oty

215

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

Memo

0.00 =) M 10-01-12

0.00

0.00

220



Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

11118888

=) Ill 10-01-18

Memo

OVEN TEMPERATURE: 3, FINISH TIME: 10:45

W/O:			WO	RK ORDER CHANGE	ES				1
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Categ	gory:	NCR: Yes	No DQ	A:	Date: _	
	Re	solution:	Disposition	:	QA: N/C C	losed:		Date:	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NC	R)			
DATE	OTED	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	tion C	Chief Eng	QC Inspector
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January 5, 2010 2:37:18 PM

Required Date: 15/01/25.0

Item ID:

D117-762-041

Replacement Skidtube

Accept

Setup Start



Stop



Item Name: **Start Date:**

Revision ID:

05/01/2019

Start Qty: 1.00 Req'd Qty: 1.00

....aCust Item ID: Customer:

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Start

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

230

OC

Quality Control

Operation Description

QC3- Inspect Part Finish

Memo

Set Up/ **Run Hours**

Draw Number

Draw Rev.

Plan Code

Accept Reiect **Qty**

Run

Reject Number

Insp. Stamp

0.00

Qty

240

HandFinish

Hand Finishing

HandFinishing

HandFinishing

Memo

0.00

0.00

0.00

BK 10-01-21

Install Wearplate & Ground Wire inserts as per Dwg D3582.

250

HandFinish

Hand Finishing

0.00

Memo

1-Inspect for Foreign objects 2-Install Aft cap as per Dwg D35 A/R 241 Sika Flex Batch

3-Install Wearplates as per Dwg D3582

JBE MIOIZQ3 Note:Install Bolt and wa

3 Af 100-21 D m-f 10/02/16 (X

W/O:			WORK ORDER CHANGES								
DATE	STEP		PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto		
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							ļ				
Part No	:	PAR #: _	Fault Category:	NO.	CR: Yes	No DQ	A:	Date: _			
	Res	olution:	Disposition:	Q,	A: N/C C	closed:		Date:			

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
	T	Description of NC		Corrective Action Section B		Verification	Annroval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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								†

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						,	

Part No: DII7- 762-041 PAR #: 7 Fault Category: Procl. Skidlubes. NCR: Yes (No) DQA: // Date: 16.02.04

Resolution: re-work Disposition: re-work QA: N/C Closed: _____

Date: ___

NCR: 5	5060	Wo	ORK OR	DER NON-CONFORMANCE	(NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
10.02-04	250	upon Assembly of the D3508-9 wear plate, it was noticed that the hous in the tube were too narrow and causing the basearph to lift in the center when tight enecl.		1 1000000	3. DCA10	10.02.04	DSILL	10.02.04
		R.c.: Tooling.	10.02.11	1 . 1	10-2-11	Soluche	10.32,09 05/042	10.02.04
			10. Win	with out any bending upof the wear plate.		Solerlie	10 02,04 PO 042	1,0.02.01

Work Order ID 55060



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January 5, 2010 2:37:18 PM

Item ID:

D117-762-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010 Required Date: 15/012010

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Start Run



Date:

SPC (Y/N):

0.00

Date:

Stop

Sequence ID/

Work Center ID

260

QC

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** Draw Number

Draw Rev.

Plan Code

Accept Qty

Reject Qty

Reject Insp. Number

Stamp

Quality Control

270

Packaging

Packaging

Packaging

Memo

Memo

0.00

0.00

Identify and pack for shipping as per PPP D117-762-041

PPP Rev:

280

QC21- Final Inspection - Work Order Release

0.00

OC

Quality Control

Memo

0.00

10/02/18 98

W/O:				WORK ORDER	CHANGES					-
DATE	STEP		PRO	CEDURE CHANGE	ı	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No):		PAR #:	Fault Category:	NCR:	Yes	No DQ	A:	_ Date: _	
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NCR:	CR: WORK ORDER NON-CONFORMANCE (NCR)							
	T	Description of NC		Corrective Action Section B		Verification	A	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	
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Picklist Print

January 5, 2010 2:37:23 PM

Work Order ID: 55060

D117-762-041 Parent Item:

Parent Item Name: Replacement Skidtube

IPP RevD: add pressure wash DD 09.12.11 verified by:EC Comments:

Manufactured

No

Start Date: 05/01/2010

Required Date: 15/01/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item	n de	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pic	,	Date Issued	**************************************	Status
D2962-150			Manufactured	No		to be a state of the sample	110	Each	36.0000	1.0000	A 4D		·· •- ·	
		EL BISTA ESTA JESA								14044 1441	MB 10.01	-0G		

3.540 Outer Tube, Extrut

Warehouse	Lo	c Oty	Loc Code		
Location					
Main Warehouse					
ST		36			
28672		36			(IX)
	140	Each	29.0000	1.0000	

D2964

Cap

		Warehouse Location	Lo	c Qty	Loc Code				
		Main Warehouse							
		ST		29					. 1
		14101		29			/	A.E.	10/01/11
Manufactured	No		190	Each	36.0000	0000.1			, ,



Cross Bolt Spacer

Warehouse	Loc Oty	Loc Code
Location		
Main Warehouse		
ST	36	

36

44445

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W/O:			WORK ORDER CHANGES												
DATE	STEP	PRO	CEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
															
Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	Date:									
	R	esolution:	Disposition	:	QA: N/C C	losed:		Date: _							
NCR:		\	WORK ORDE	R NON-CONFORMA	NCE (NC	R)									
DATE	STEP	Description of NC	, , , , , , , , , , , , , , , , , , ,	Corrective Action Section		Verific	ation	Approval Chief Eng	Approval						
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& _{Secti}			QC Inspector						

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041

Parent Item Name: Replacement Skidtube

Comments:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Start Date: 05/01/2010

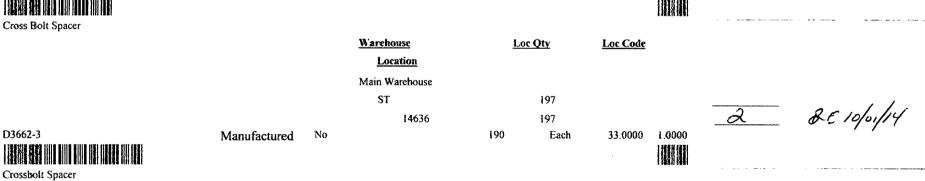
Required Date: 15/01/2010

Start Qty: 1.00

Required Qty: 1.00

Component ID/	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Day Iss e d	Status
D3584-1 Web		Manufactured	No		: -	190	Each	1.0000	1.0000			

Web		Warehouse	Loc Qty	Loc Code	
		<u>Location</u> Main Warehouse LG	i	B 5. 305	1 h 6/1/12
D2973 Cross Bolt Spacer	Manufactured No	54349	l 190 Each	197.0000 2.0000	
·		Warehouse	Loc Otv	Loc Code	



Crossbolt Spacer					-
	Warehouse	Loc Qty	Loc Code		
	Location				
	Main Wzrehouse				
	ST	33		 	, /
	44456	33			AF while

W/O:			WC	ORK ORDER CHANG	BES			* * *.	
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			,						
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQ	A:	Date: _	
	Res	olution:	Dispositio	n:	QA: N/C CI	osed:		Date:	
NCR:		,	WORK ORD	ER NON-CONFORM	ANCE (NCF	R)			
DATE	STEP	Description of NC	1-11-1	tion B		cation	Approval	Approval	
	J.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	' Sect	ction C Chief Eng		QC Inspector

Status

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

Comments:

D117-762-041

Parent Item Name: Replacement Skidtube

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Start Date: 05/01/2010

Start Qty: 1.00

Required Date: 15/01/2010

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sued

Required Qty: 1.00

Componer Kem ID/	Replacement	Mfg/	Bin	Primary	Last de la Localida d	Route	Unit of	Qty on	Remaining	Qty
Item Name	Item ID	Purch	Item	Location		Seq ID	Measure	Hand	Qty To Pick	Issued
D3662-1		Manufactured	No			190	Each	21.0000	3.0000	

No

No

|--|--|

Crossbolt Spacer

ALS4-1032-130

ALS4-428-165

inserts

Warehouse	<u>Lo</u>	c Qty	Loc Code		
Location					
Main Warehouse					
ST		21			
39022		3			
39585		18		3 RE	
	240	Each	2,717.000 36.0	0000	

Purchased

Insert

Warehouse	<u>L</u>	oc Qty	Loc Code	
Location				
Main Warehouse				
ST /		2717		
110511		2717		
	240	Each	38.0000	2.0000

36 Bl 10-01-21.

Purchased

Warehouse Loc Qty Loc Code Location Main Warehouse FP 38 38

2 BR10-01-2L

W/O: WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No: PAR #: Fault Category:					NCR: Yes No DQA: Date:						
	R	esolution:	Dispositio	n:	_ QA: N/C C	losed:		Date: _			
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCI	₹)					
DATE	STEP	Description of NC		tion B	Verifi	cation	Approval	Approval			
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				THE THE STANSFER SERVICE STANSFER SERVICES							
	1										

Picklist Print

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041



Parent Item Name:

Replacement Skidtube

Comments:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Manufactured

Manufactured

No

Start Date: 05/01/2010 Start Qty: 1.00

Required Date: 15/01/2010

Page 4

Required Qty: 1.00

Comparent Item ID/	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	i cation	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Ĭ.	Date Issued	Status
D2965	· · · · · · · · · · · · · · · · · · ·	Manufactured	No		· · ·	250	Each	54.0000	1.0000	· · · · · ·	· ·		The state of the s

Cap, 105 Skidtube

	Wzrehouse		Loc Qty		Loc Code		
	Location						
	Main Warehouse						
	FP4	/	5	4			
	52057		5	4			_ 1 /k 10-01-21.
No		2:	50	Each	6.0000	1.0000	•



Wearplate

Warehouse	L	oc Qty	Loc Code	
Location				
Main Warehouse				
FP21		6		
51386		6		
	250	Each	2.0000	1.0000



Wearplate

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST 54580.	2	

2

1 BR 10-01-21.

IBI 10-01-21

46596

	WORK ORDER CHANGES											
STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
						•						
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	STEP					STEP PROCEDURE CHANGE By Date Qty Chief Eng /						

Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Corrective Action Section E	Verification	Annuaval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspector
		ν.						
						!		
							1	
								}

Picklist Print

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item: D117-762-041

Parent Item Name: Replacement Skidtube

Comments:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Manufactured

Manufactured

No



Start Date: 05/01/2010

Start Qty: 1.00

Required Date: 15/01/2010

Page 5

Required Qty: 1.00

Fr ponent Item ID/	Replacement Item ID	Mfg/ Purch	Bin Item	Primary	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
ى3558-3	III	Manufactured	No	,· ·		250	Each	11.0000	1.0000			
	1111											

Gasket

Warehouse	Lo	c Oty	Loc Code		
Location					
Main Warehouse					
ST		11			
51391		11			1 196 10-01-20
	250	Each	15.0000	1.0000	•
				{ ###	

D3558-9

Gasket

Warehouse	Lo	: Oty	Loc Code		
Location					
Main Warehouse					
ST /		15			
50928		15			1 Bl 10-01-21
•	250	Each	13.0000	1.0000	•
				MI	

Gasket

D3558-11

Warehouse Location	Loc Oty	Loc Code
Main Warehouse		
ST	13	
40399 42254 √	1	
42254 ✓	12	

1 Bd 10-01-21

W/O:		WORK ORDER CHANGES												
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	e Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
-														
Dord No.	_	D4D #			NOD V				<u></u>					
Part No: PAR #:														
	Re	esolution:						Date: _ 						
NCR:		·	WORK ORDI	ER NON-CONFORM	IANCE (N	CR)								
DATE	STEP	Description of NC			ction B	Ve	rification		Approval					
————	O I L I	Section A	Initial Chief Eng	Action Description Chief Eng		n & ite	Section C	Chief Eng	QC Inspector					
	1 1		1		1	1		l	1					

Picklist Print

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041

Replacement Skidtube Parent Item Name:

Comments:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Manufactured



Start Date: 05/01/2010

Required Date: 15/01/2010

Page 6

Start Qty: 1.00 Required Qty: 1.00

÷	Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Priversy Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Car Is Led	Date Issued	Status
	D3558-13		Manufactured	No			250	Each	9.0000	1.0000			
٠.					••								

Gasket

		Warehouse	Ī	oc Qty	Loc Code		
		Location					
		Main Warehouse					
		ST 12		9			
		40400 42255		4			1/1/ 10 21-21
		42255		5			1 1/ 10-01-21
Manufactured	No		250	Each	7.0000	1.0000	

D3508-11

Wearplate

Warehouse	<u>Lo</u>	c Qty	Loc Code	
<u>Location</u>				
Main Warehouse				
ST		7		
40398		2		
40398 46 88 0		5		
	250	Each	5.0000	1.0000

D3508-13

Wearplate

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
ST 54645	5	
42252	5	

1 Bl 10-01-21

- BR 10-01-21

W/O:		WORK ORDER CHA	WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
		•	, ·								
						<u> </u>					
	<u> </u>					<u> </u>					

Part No:	_ PAR #: F	ault Category:	NCR: Yes No DQA:	Date:
Resolution:	D	Disposition:	QA: N/C Closed:	Date:

NCR:		,	WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Approval Chief Eng	Ammanal				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Approval QC Inspector				
					ļ							
								:				
]											

Picklist Print

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041

Manufactured

Parent Item Name: Replacement Skidtube

IPP RevD: add pressure wash DD 09.12.11 verified by:EC Comments:



Start Date: 05/01/2010

Required Date: 15/01/2010

Page 7

Start Oty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Cation	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty Qty To Pick Issued	Date Issued	Status
D3492-051		Manufactured	No			250	Each	20.0000	2.0000		

Plug Assembly

Warehouse	L	oc Qty	Loc Code	
Location				
Main Warehouse				
ST		20		
44633		20		
	250	Each	16.0000	2.0000

D3492-049

Plug Assembly

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
ST	16	
40356	ı	
40356 44632 r	15	

2 Bl 10-01-2L

= 2 Bk 10-01-21

January 5, 2010 2:37:23 PM

	Johnson								_		
W/O:			WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		•									
Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA:		Date:			
Resolution:		esolution:	Disposition:		QA: N/C Closed:			Date:			
NCR:			WORK ORD	R NON-CONFORM	ANCE (NCI	₹)					
DATE	STEP	Description of NC Corrective Ac		-, -, -, -, -, -, -, -, -, -, -, -, -, -	ion B	Verifica	tion	Approval	Approval		
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date	Section		Chief Eng	QC Inspector		

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041

Parent Item Name: Replacement Skidtube

Comments:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Manufactured

Last

Start Date: 05/01/2010

Required Date: 15/01/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name

Replacement Mfg/ Item ID

Purch

Bin Primary Ite. Location Location

Route Seq ID

Unit of Measure

Oty on Hand

Remainis Qty To Pi Date Issued

Status

D3492-053

No

250

Each

68.0000

Loc Code

6.0000

Plug Assembly

Warehouse Location Main Warehouse FP

54641 Main Warehouse ST

44063

66

Loc Qty

2 2 Each 6 pl 10-01-21

AN960JD10L

Purchased

No

250

4,867.000 2.0000



Washer

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST	4867	
101291	16	
104885	16	
105793	197	
109632 /	174	
1109854	4464	

W/O:			WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
						· · · · ·				
				i						
		<u> </u>								
Part No):	PAR #:	Fault Category:	NCI	R: Yes	No DQ	A:	_ Date: _		

Resolution: _____ Disposition: _____ QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification Section C	Approval Chief Eng	A mmun		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date			Approval QC Inspector		
					1					
		74. J4. II								
NOTE: D	 ate & initial al	l entries								

January 5, 2010 2:37:23 PM

Work Order ID: 55060

D117-762-041



Parent Item Name: Replacement Skidtube

Start Date: 05/01/2010

Required Date: 15/01/2010

Comments:

Parent Item:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Start Qty: 1.00

Required Oty: 1.00

Com	ponent	Item	IJ
Item	Name		

Replacement Mfg/ Item ID

18 Primary Sem Location Last Location

Route Seq ID

Unit of Measure Hand

Remaining Oty Pick Issued

Date Issued

Status

AN3C4A

Purchased

Purch

Purchased

No

250

Each

1,195.000 28.0000

BOLT

Warehouse	La	oc Qty	Loc Code	
<u>Location</u>				
Main Warehouse				
ST		1195		
112314		13		
112720		12		
112724		3		
112829		1		
112991		2		
113121		64		
113226		586		
113359		14		
113422		500		
·	250	Each	609,0000	2.0000

AN3C5A

Bolt

Warehouse Location	Loc Qty	Loc Code
Main Warehouse	609	
111424	8	
111707	69	
112314	1	
113121	231	
113149	300	

2 Bp 10-01-21.

W/O:		1000	WC	RK ORDER CHANG	FS					
DATE STEP		PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	jory:	NCI	R: Yes	No DQ	اــــــــــــــــــــــــــــــــــــ	Date:	
			Disposition: Q							
NCR:			WORK ORDE	R NON-CONFORM	ANCE	(NCR)			
DATE	STEP	Description of NC	Corrective Action Section B					cation Approval		
		Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti	on C	Chief Eng	QC Inspector
				•						
						£				
i										

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041 Replacement Skidtube

Parent Item Name:

Component Item ID/

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Replacement Mfg/ Purch Item ID

1 Primary atem Location

Last Location

Route Seq ID

Unit of Measure

Hand

Remaining Oty To Pick

Start Oty: 1.00

Start Date: 05/01/2010

Issued

Date Issued

Required Date: 15/01/2010

Required Qty: 1.00

Status

AN960JD416L

Comments:

Item Name

Purchased

250

Each

795.0000 2.0000

Washer

Warehouse	<u>Lo</u>	c Oty	Loc Code		
Location					
Main Warehouse					
ST		795			
105078		4			
107008		54			
108583		40			
110153 ✓		297			
112492		400			
	250	Each	416.0000	28	

8.0000

AN960C10L

washer

Purchased

No

NASIH9C00382R

Loc Code Loc Qty Warehouse Location 113288 **OFFSHORE** FG 100 103585 100 Main Warehouse ST 316 112116 156 112612 160

QB 16/ 10-01-21

W/O:		WORK ORDER CH	HANGES	/		4	,
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		•					
		•					
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:	

NCR:	}		WORK ORD	ER NON-CONFORMAN	CE (NCR)			
		Description of NC		Corrective Action Section B	Verification			
DATE		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
								·

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041

Parent Item Name: Replacement Skidtube

Comments:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Start Date: 05/01/2010

Required Date: 15/01/2010

Start Qty: 1.00 Required Oty: 1.00

2 bf 10-01-21

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	isin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Regaining Qt To Pick	Qty Issued	Date Issued	Status
AN4-4A		Purchased	No		<u> </u>	250	Each	119.0000				

Bolt

<u>v</u>	<u>Varehouse</u>	<u>Lo</u>	c Oty	Loc Code	
	Location				
N	Main Warehouse				
	ST		119		
	101291		3		
	106918		1		
	108138		58		
	111295		57		
No		250	Each	60.0000	6.0000

NAS1611-012

O-RING

Purchased No

Purchased

No

Loc Oty Loc Code Warehouse Location

250

Main Warehouse

108673

ST

60 60

Each

20.0000 2.0000

NAS1611-015

O-RING

Warehouse Loc Qty Loc Code Location Main Warehouse ST 20

20

3 / 10-01-21.

6 Bl 10-01-21

W/O:		WORK ORDER CH	IANGES				*
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Dort No		DAD #				<u>_</u>	

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:			WORK ORDE	ER NON-CONFORMAN	CE (NCR)						
DATE	OTED	Description of NC	1	Corrective Action Section B	Verification	Approval Chief Eng	Approval QC Inspector				
DATE	STEP Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C						
					ŀ						

Status

January 5, 2010 2:37:23 PM

Work Order ID: 55060

Parent Item:

D117-762-041

Parent Item Name: Replacement Skidtube

Comments:

IPP RevD: add pressure wash DD 09.12.11 verified by:EC

Start Date: 05/01/2010

Required Date: 15/01/2010

Start Qty: 1.00

Required Qty: 1.00

Com	ponent	Item	I
Item	Name		

Replacement Mfg/ Item ID

Purch

Purchased

Bin Primary Item Location

Last Location

Route Seq ID

250

Unit of

Measure Hand

Oty on | Kemaining

117.0000 2.0000

ty To Pick Issued

Date Issued

NAS1611-016



O-RING

Loc Oty	Loc Code

Each

Location

Main Warehouse

Warehouse

ST 107178 112492

113524

2 ld 10-01-21.

Dart Aerospa	ce Lt	d
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Dart Ae	rospace i	Lta							_	•
W/O:			WC	RK ORDER CH	ANGES		-			
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				,	****					1,1,2,7
: 1										
Part No	:	PAR #:	Fault Cate	gory:	NC	R: Yes	No DQ	A:	Date:	1
	Res	solution:	Disposition	າ:	QA	: N/C C	losed:		Date: _	
NCR:			WORK ORDI	ER NON-CONFO	PRMANCE	E (NC	R)			
DATE	STEP	Description of NC		Corrective Action	Section B		Verific	cation	Approval	Approval
- DAIL	0.2.	Section A	Initial Chief Eng	Action Descrip Chief Eng	otion	Sign Date		ion C	Chief Eng	QC Inspector

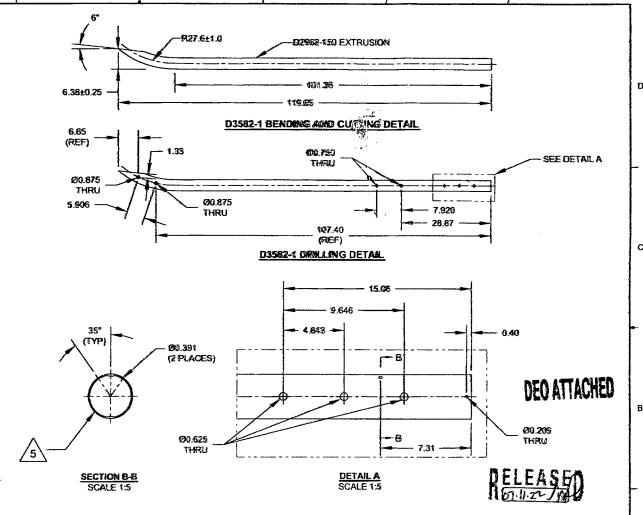
PARTS LIST FOR D3582-041 SKIDTUBE ASSEMBLY

		1	
Qty	Part Number	Description	
X	D3582-041	SKIDTUBE ASSEMBLY	
1	D2962-150	EXTRUSION	
1	D2964	CAP	
1	D/2965	CAP	
1	82971	CROSS BOLT SPACER	-
2	02973	CROSS BOLT SPACER	
2	D3492-049	PLUG ASSEMBLY	
2	D3492-051	PLUG ASSEMBLY	1
6	D3492-053	PLUG ASSEMBLY	
1	D3508-3	WEARPLATE	-
1	D3508-9	WEARPLATE	
1	D3506-11	WEARPLATE	
1	D3508-13	WEARPLATE	
1	D3558-3	GASKET	
1	D3558-9	GASKET	
1	D3558-11	GASKET	
1	D3556-13	GASKET	
1	D3584-1	WE8	
3	D3652-1	CROSS BOLT SPACER	
1	D3662-3	CROSS BOLT SPACER	
36	AELS-1032-130	INSERT	
2	ALS7-428-165	INSERT	
28	AN3C4A	BOLT	
2	AN3-5A	BOLT	
2	ANK-4A	8OLT	
28	AN968C18L	WASHER	
2	AN960JD10L	WASHER	
2	AN960JD416L	WASHER	

GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN INCHES
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- WELDING TO BE DONE PER DART OSI 004.
- 4) INSERT 03584-1 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-2411-291 ADHESIVE PER DART OSI 015 AFTER BENDING.
- 5) USE DART ORILL TEMPLATE DT8900 TO LOCATE AND DRILL @6.297 HOLES (36 PLACES) FOR WEARSHOE INSERTS. INSTALL AELS-1032-133 PER SECTION G-G (36 PLACES) AFTER FINISH. SEAL WEARPLATE BOLTS WITH SWAFLEX-2411-291.
- 6) DO NOT INSTALL ANGCAR BOLTS AND ANSSOCIOL WASHERS IN INDICATED
- LOCATIONS. 7) FINISH:
 - A) CHEMICAL CONVERSION COAT PER DART QSI 035 4.1 PRIOR TO INSERTING D3584-1 WEB.

 - 8) POWDER COAT ASSEMBLY GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3.
 C) ANTI-SKID PAINT AS INDICATED TO 1.00 ABOVE CENTER LINE PER DART QSI



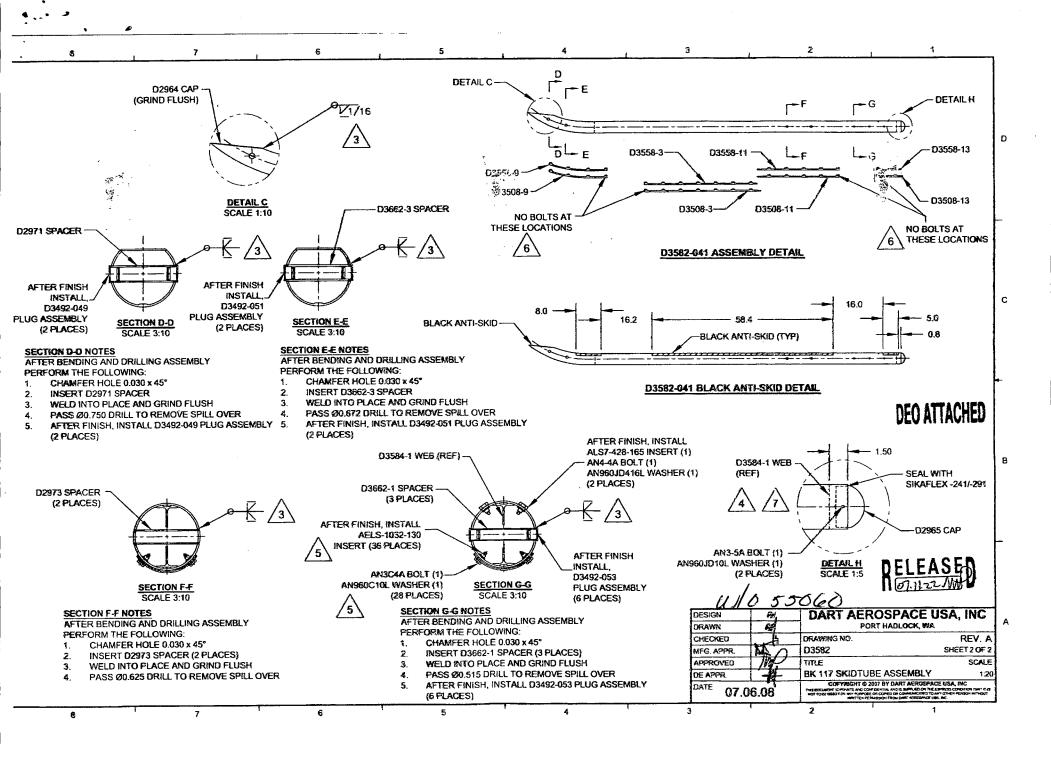
SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK OKDER

Α	NEW	ISSUE] {	H	07.05.08					
REV.				DESCRIPTION	3Y	DATE					
DESIGN #				DART AEROSPACE	DART AEROSPACE USA, INC						
DRAWN		P	4	PORT HADLOOK, W		•					
CHECKED		4	DRAWING NO.		REV. A						
tefg. Af	MFG. APPR.			D3582	:	SHEET 1 OF 3					
MPPRO!	/ED	1	7	TITLE		SCALE					
SE APP	R.	d		BK 117 SKIDTUBE ASSEMBLY	•	1.20					
^{®ATE} 07.06.08			,	COPTRIGHT © 2017 EY CLASS BURGLES PAGE USE, BYC THIS SOCIETY IS THE WORLD BY SOCIETY BY STRUKE OF THE SOCIETY WHITTEN NOT TO BE CLASS COME WITH THE SOCIETY ASSOCIATION OF THE SOCIETY BY STRUKE BY							

W/O:		WORK ORDER	CHANGES				. ,
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		· · · · · · · · · · · · · · · · · · ·					

Part No:	P	AR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	OA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
D.475		Description of NC Corrective Action Section B				Verification	Approval	al Ammuoval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	. Chief Eng	Approval QC Inspecto				
**												
				•								
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Dart	Aeros	pace	Ltd
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W/O:			WORK ORDER C	HANGES			<u>.</u>	•
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Category:	NCR: Yes	No DQ	A:	Date:	

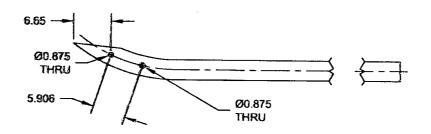
Resolution: _____ Disposition: ____ QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B	}	Verification Section C	Approval Chief Eng	Approval QC Inspector				
DATE STE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date							
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DRAWING N	10.	TITLE				, REV	/. A D	ART AERO	DSPACE US	A. IN	C D.E.O. N	0.		St	EET NO.		SCALE
D3582		BK 11	7 SKIDT	UBE /	ASSEM		1		ERING ORD		D3582-				ET 1 OF 1		NTS
DRAWN	P&	4	CH	HECKE	Ð			MFG. APPR.	B	Α	PPROVED	1	M	DE APP	R//	•	
DATE	09.04.	06	DA	ATE	04.04	06		DATE	09.04.06	D	ATE	79	34/Dh	DATE	09.04		
													~~~~~			<u> </u>	

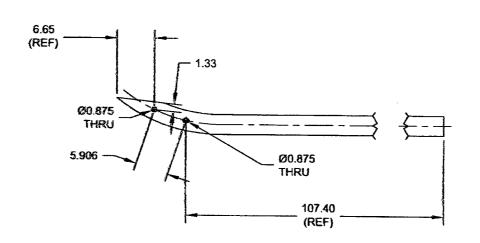
FOR EASE OF MANUFACTURE AND TO ENSURE THE FIT OF BRISTO WIRESTRIKE SKID GEAR DEFLECTOR: UPDATE DIMENSIONING OF 2 FWD HOLES ON SHEET 1 AS SHOWN

IS:



ulo 55060

WAS:



RELEASED

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	WORK ORDER CHANGES					
STEP	PROCEDURE CHANGE	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
					į	
				<u> </u>		
	STEP	STEP PROCEDURE CHANGE	STEP PROCEDURE CHANGE By	STEP PROCEDURE CHANGE By Date	STEP PROCEDURE CHANGE By Date Qty	WORK ORDER CHANGES  STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr

Part No: _	PAR #:	Fault Category:	NCR: Yes No DQA:	"Date:
	Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:	ļ	WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B		Verification	Approval	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
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						ri.						
					•			i				
				; 								

NO. 220
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## AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barday Ellistt	
Job number: 54161	
Part number: Dil) 762.041	
Description: 15 sk.d tube	
Welding Process: Tig[/] Mig[]	
Base materiel: Aluminian	
Current: AC[\(\circ\)] DC[\(\)]	

## TEST REQUIREMENTS AND RESULTS

Visual:	pass[/]	fail[ ]
Penetration:	pass[\sqrt{}]	
UNACCEPTABLE		
Cracks:	pass[/]	fail[ ]
Undercut:	pass[/]	
Pin holes:		fail
Overlap (cold lap)	pass[v]	fail
Porosity (surface):	pass[ 1	fail
Coloration:	pass[ ]	fail[ ]
1101		
Qualifier / c/ //	_Date of Te	est Coupon Og. 1010
Welder Boyland Hist	_ Date of To	est Coupon <u>09/12/10</u>
		, , ,

The above named individual is qualified in accordance with AWS D17.1.2001 to weld